

**S**YSTEM **P**LANNING & **A**NALYSIS **R**EPORT

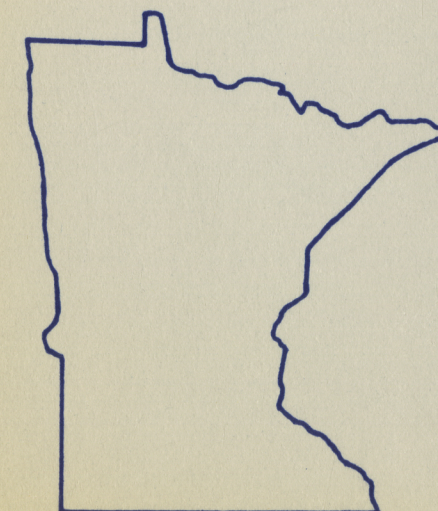
**S-II0**

T.H. 494  
24TH AVENUE S. TO 1 MILE E.  
OF THE MINNESOTA RIVER

S.P. 2785-107, 1986-01

AUGUST, 1972

PREPARED BY  
**OFFICE OF SYSTEM PLANNING**



**MINNESOTA  
DEPARTMENT  
OF HIGHWAYS**



DEPARTMENT HIGHWAY-Statewide Planning  
Room 807 Ext. 3158

# Office Memorandum

TO : Paul G. Velz  
Road Design Engineer

DATE: August 10, 1972

FROM : Morris Gildemeister, Chief  
Statewide Planning Section

SUBJECT: T.H. 494, 24th Avenue S. to 1 mile E. of the  
Minnesota River, S.P. 2785-107, 1986-01  
System Planning & Analysis Report S-110

This report is in response to R. D. McAtee's July 6, 1972 request for 1995 ADT & HCAADT for the project location as shown on the map on page 2.

For each segment numbered on the map on page 3, the vehicle type distribution is tabulated on pages 4-6. The basic data, method, & assumptions are presented on page 7.

Segment 1 has the highest 1995 ADT on the project. It is 108,510. The 1970 ADT at this point is 41,875.

*Morris Gildemeister*

Morris Gildemeister, Chief  
Statewide Planning Section

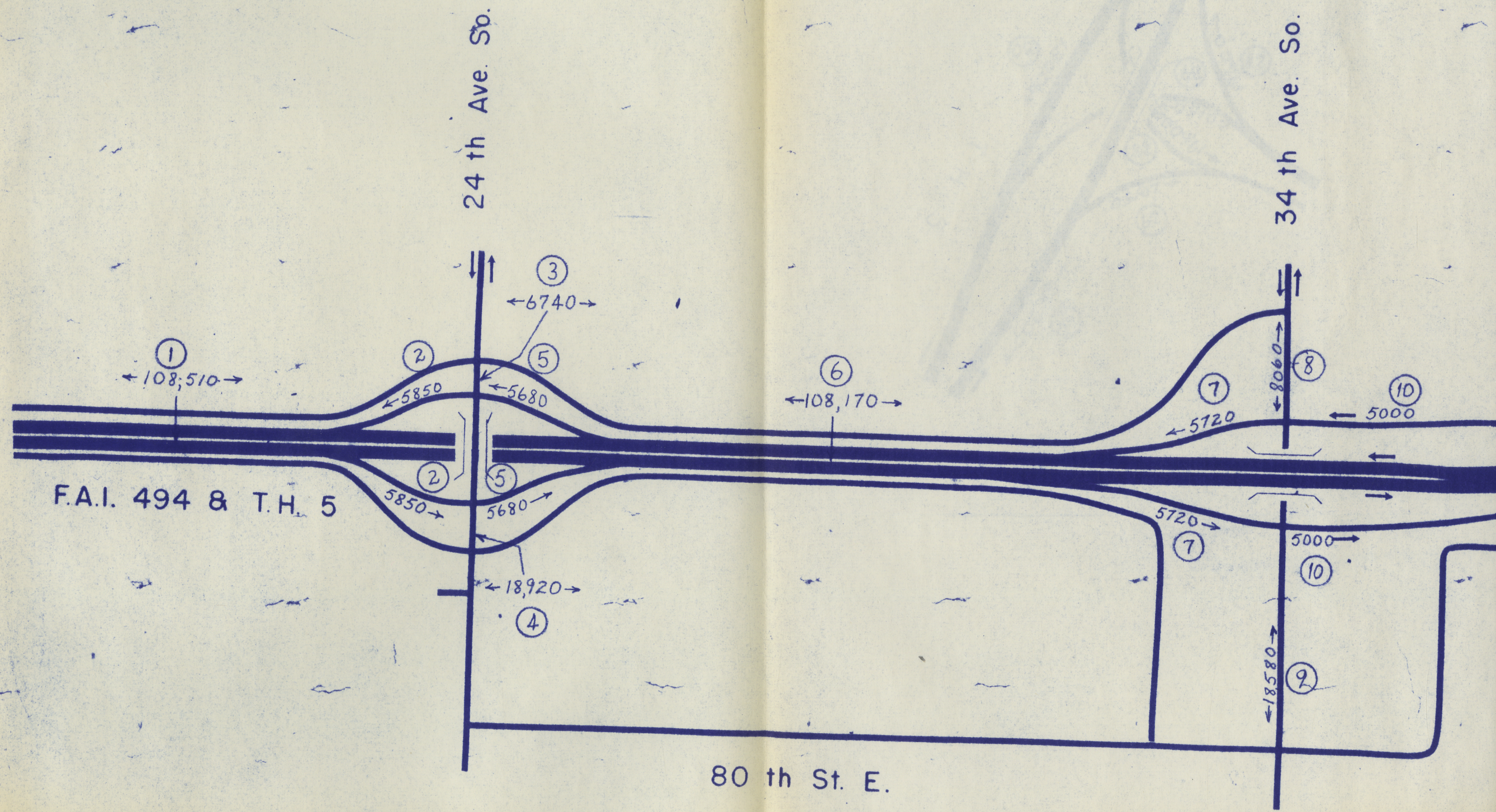
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STATE OF MINNESOTA  
DEPARTMENT OF HIGHWAYS  
WORK MAP

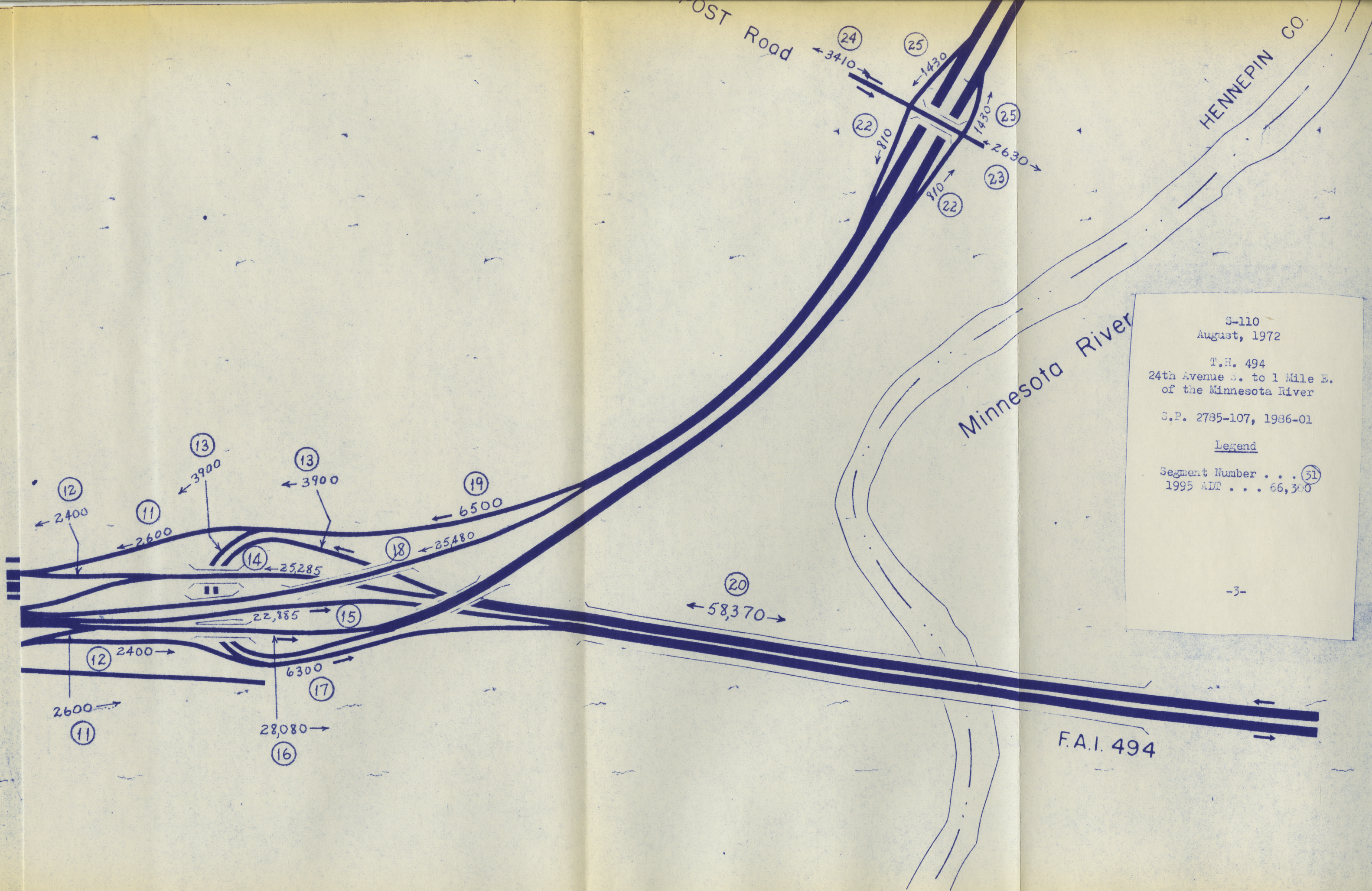


Project Location  
S.P. 2785-107  
1986-01









S-110  
August, 1972

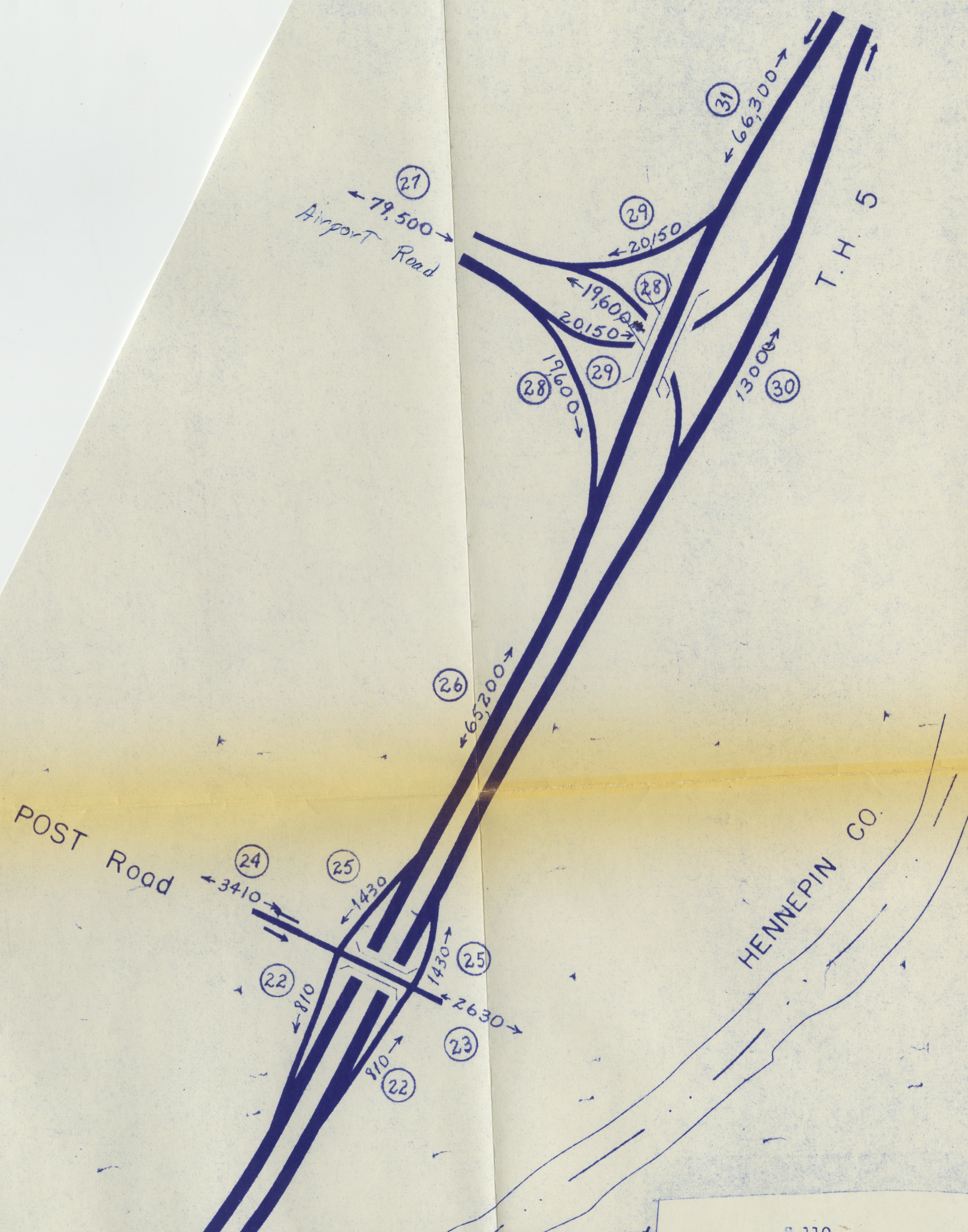
T.H. 494  
24th Avenue S. to 1 Mile E.  
of the Minnesota River

S.P. 2785-107, 1986-01

Legend

Segment Number . . . (31)  
1995 AIT . . . 66,300







## TRAFFIC ESTIMATE DATA

DESIGN YEAR 1995 PART 1 OF 3

FOR

T.H. 494 S.P. 2785-107, 1986-01 LENGTH -- MILESCOUNTY Hennepin, Dakota LOCATION 24th Avenue S. to 1 mile E.of the Minnesota River

BASED ON

1995 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS

DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	101013	5512	6444	17762	5355	100704	5427	7693	17452	4666	2427
1	1960	150	134	514	146	1952	114	162	440	135	70
2	1520	66	54	222	62	1512	55	64	214	62	32
3	340	27	13	93	25	336	24	24	86	23	12
4	434	33	24	120	31	430	27	32	104	31	16
5	2912	44	40	144	42	2908	52	42	202	60	31
6	326	18	26	60	19	323	21	32	76	23	12
TOTAL ADT	108510	5850	6740	18920	5630	108170	5720	8060	18530	5000	2600
TOTAL H. COMM. ADT	7492	338	296	1153	325	7466	293	362	1123	334	173
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

## \* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS  
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS  
 2 = SINGLE UNIT-3 AXLE TRUCKS  
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES  
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES  
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES  
 6 = BUSES AND TRUCKS WITH TRAILERS

## TRAFFIC ESTIMATE DATA

DESIGN YEAR 1995 PART 2 OF 3

FOR

T.H. 494 S.P. 2785-107, 1986-01 LENGTH -- MILESCOUNTY Hennepin, Dakota LOCATION 24th Avenue S. to 1 mile E.of the Minnesota River

BASED ON

1995 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 22 AS

DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17	18	19	20	21	22
0	2239	3643	23586	21347	26005	5832	23573	6070	54453	59296	736
1	65	145	467	402	530	210	460	215	1224	1350	32
2	30	59	339	309	424	89	392	91	796	969	6
3	11	3	74	63	93	14	81	15	154	192	4
4	15	4	99	83	121	19	105	20	204	253	6
5	29	7	642	613	820	36	789	38	1293	1654	10
6	11	39	79	63	87	50	75	51	236	252	16
TOTAL ADT	2400	3900	25285	22825	28030	6300	25480	6500	58370	63960	810
TOTAL H. COMM. ADT	161	257	1699	1538	2075	418	1902	430	3912	4664	74
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

## \* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS  
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS  
 2 = SINGLE UNIT-3 AXLE TRUCKS  
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES  
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 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES  
 6 = BUSES AND TRUCKS WITH TRAILERS



TRAFFIC ESTIMATE DATA

DESIGN YEAR 1995 PART 3 OF 3

FOR

T.H. 494 S.P. 2785-107, 1986-01 LENGTH -- MILES

COUNTY Hennepin, Dakota LOCATION 24th Avenue S. to 1 mile E. of the Minnesota River

BASED ON

1995 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 23 THROUGH 31 AS

DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER									
	23	24	25	26	27	28	29	30	31	
0	2390	3098	1302	60423	73548	18141	18633	12073	61412	
1	110	146	60	1406	1786	440	453	263	1432	
2	16	20	8	970	1240	305	315	180	990	
3	12	16	6	196	236	58	60	40	200	
4	18	24	9	256	318	78	81	50	262	
5	34	40	17	1668	2038	496	523	338	1722	
6	50	66	28	276	334	82	85	56	282	
TOTAL ADT	2630	3410	1430	65200	79500	19600	20150	13000	66300	
TOTAL H. COMM. ADT	240	312	128	4772	5952	1459	1517	927	4888	
TOTAL DHV										
DIRECTIONAL DISTRIBUTION										

\* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
- 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
- 2 = SINGLE UNIT-3 AXLE TRUCKS
- 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
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- 6 = BUSES AND TRUCKS WITH TRAILERS

Basic Data, Method, & Assumptions

SPAR M-110 contains the 1995 ADT used for this project.

The HCA DT was obtained by using the following method. A study was conducted of vehicle classification counts recorded at ATR 302 which is located on T.H. 494 west of the project area. The latest available counts here were projected by vehicle type to 1995 values by using a statewide vehicle type trend study. These values were then applied to the project.